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## NOTICE OF ALLOWANCE AND FEE(S) DUE

43076

7590

01/11/2010

MARK D. SARALINO (GENERAL) RENNER, OTTO, BOISSELLE & SKLAR, LLP 1621 EUCLID AVENUE, NINETEENTH FLOOR CLEVELAND, OH 44115-2191

EXAMINER					
YODICHKAS, ANEETA					
PAPER NUMBER					

2627

DATE MAILED: 01/11/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/533,628	10/20/2005	Akihiro Arai	OKUDP0114US	6325

TITLE OF INVENTION: OPTICAL HEAD AND OPTICAL DEVICE PROVIDED WITH OPTICAL HEAD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/12/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notification	correspondence including the delow or directed other trions.	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification of r a) specifying a new corre	maintenance fees v spondence address	vill be and/or	mailed to the current (b) indicating a sepa	correspondence address a arate "FEE ADDRESS" fo	
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43076 7590 01/11/2010				have its own certificate of mailing or transmission.  Certificate of Mailing or Transmission				
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CLEVELAND,	ОН 44115-2191						(Depositor's name	
							(Signature	
							(Date	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.	
10/533,628	10/20/2005	•	Akihiro Arai		C	KUDP0114US	6325	
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE		
nonprovisional	NO	\$1510	\$300	<b>\$</b> 0		\$1810	04/12/2010	
EXAM	MINER	ART UNIT	CLASS-SUBCLASS	]				
YODICHKA	AS, ANEETA	2627	369-044260					
CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up to or agents OR, alternati (2) the name of a single registered attorney or a 2 registered patent atto- listed, no name will be	vely, e firm (having as a ngent) and the nam rneys or agents. If printed.	memb	er a 2 p to		
PLEASE NOTE: Un recordation as set for (A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NO	THE PATENT (print or ty) data will appear on the p T a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assign assignment. ' and STATE OR C	COUNT	TRY)		
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Co	orporati	on or other private gr	oup entity 🖵 Governmen	
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a. Applicant claim	ntus (from status indicated ns SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no lon					
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This collection of inform an application. Confider submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria Virginia 22	ntiality is governed by 35 dapplication form to the ions for reducing this bu. Virginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th ONOT SEND FEES OR	on is required to obtain or a 1.14. This collection is estanded to the indiversity of the control of the complete the complete of the complete	retain a benefit by t imated to take 12 ridual case. Any co er, U.S. Patent and O THIS ADDRESS	he publ minutes omment Traden S. SENI	ic which is to file (and to complete, including son the amount of the transfer, U.S. Deporto: Commissioner	d by the USPTO to process ng gathering, preparing, an me you require to complet artment of Commerce, P.C for Patents, P.O. Box 1450	

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MARK D. SARA	ALINO (GENERAL)	YODICHKA	S, ANEETA	
	BOISSELLE & SKLA	ART UNIT	PAPER NUMBER	
1621 EUCLID AV CLEVELAND, OI	ENUE, NINETEENTI I 44115-2191		2627 DATE MAILED: 01/11/201	0

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 508 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 508 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/533,628	ARAI, AKIHIRO	
Notice of Allowability	Examiner	Art Unit	
	Aneeta Yodichkas	2627	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to the amendment filed 2. The allowed claim(s) is/are 7-27 now renumbered as 1-9, 3. Acknowledgment is made of a claim for foreign priority under the communication of the priority documents have a communication of the priority documents have a communication of the certified copies of the priority documents have a communication of the certified copies of the priority documents have a communication of the certified copies of the priority documents have a communication of the certified copies of the priority documents have a communication of the certified copies of the priority documents have a communication of the certified copies of the priority documents have a communication of the certified copies of the priority documents have a communication of the certified copies of the priority documents have a communication of the certified copies of the priority documents have a communication of the certified copies of the priority documents have a communication of the certified copies of the priority documents have a communication of the certified copies of the priority documents have a communication of the certified copies of the priority documents have a communication of the certified copies of the priority documents have a communication of the certified copies of the certifie	(OR REMAINS) CLOSED i or other appropriate comm IGHTS. This application is and MPEP 1308.  on 10/5/09.  12-18, 21, 10, 19, 11 and 20 ander 35 U.S.C. § 119(a)-(d) be been received.	n this application. If not included unication will be mailed in due course subject to withdrawal from issue at the output of the	e initiative
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give	MENT of this application.  iitted. Note the attached EX	AMINER'S AMENDMENT or NOTICE	
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) $\prod$ including changes required by the Notice of Draftspers	son's Patent Drawing Revie	w ( PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
<ul> <li>(b) ☐ including changes required by the attached Examiner'         Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1)</li> </ul>			of
each sheet. Replacement sheet(s) should be labeled as such in t	_		
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>			е
<ul> <li>Attachment(s)</li> <li>1. ☑ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☐ Information Disclosure Statements (PTO/SB/08),</li></ul>	6.  ☐ Interview S Paper No. 7.  ☐ Examiner's —	oformal Patent Application  ummary (PTO-413),  /Mail Date  Amendment/Comment  Statement of Reasons for Allowance	ı

### **DETAILED ACTION**

## Allowable Subject Matter

Claims 7-27 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance: The prior art of record, alone, or in combination, fails to teach or render obvious, "wherein the light receiving area receives center sections of the first type of reflected rays, and wherein as measured in a first direction in which the first type of reflected rays are arranged, the light receiving area has a size that is equal to or greater than the diameter of the luminous flux of reflected rays", in combination with the other limitations set forth in claim 7.

The prior art of record, alone, or in combination, fails to teach or render obvious, "wherein as measured in a direction in which the first type of reflected rays are arranged, the non-light-receiving area is narrower than a shortest distance between the first type of reflected rays", in combination with the other limitations set forth in claim 16. Claim 22 has similar allowable limitations as claim 7.

Claim 23 has similar allowable limitations as claim 16.

Claims 8-15, 17-21 and 24-27 are dependent upon allowed base claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2627

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aneeta Yodichkas whose telephone number is (571) 272-9773. The examiner can normally be reached on Monday-Thursday 8-5, alternating Fridays, 8-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on (571) 272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Joseph H. Feild/ Supervisory Patent Examiner, Art Unit 2627

/A.Y./ 1/1/01